

Product name	AlphaTec® 1800 STANDARD
Product material	Microporous polyethylene laminate nonwoven
Colour available	White
Material weight	53gsm

Physical Properties - EN 14325:2004			
Test Method		Result	EN Class
Abrasion	EN 530	>10 cycles	1 of 6
Flex cracking	EN ISO 7854	>5,000 Cycles	3 of 6
Tear resistance (MD)	EN ISO 9073-4	> 20 N	2 of 6
Tear resistance (CD)			
Tensile strength (MD)	EN ISO 13934-1	> 30 N	1 of 6
Tensile strength (CD)			
Puncture resistance	EN 863	>5 N	1 of 6
Seam Strength	EN ISO 13935-2	>50 N	2 of 6

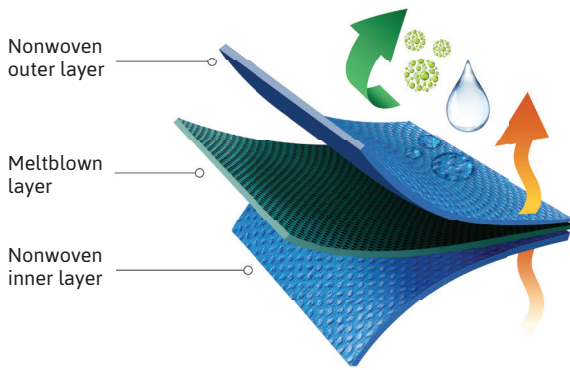
Fabric Repellence & Penetration to Liquid Chemicals - EN 14325:2004			
Fabric Repellence of Liquids			
Test Chemical	Test Method	Result %	EN Class
Sulphuric Acid (30% w/w)	EN ISO 6530	>95	3 of 3
Sodium Hydroxide (10% w/w)		>95	3 of 3
Fabric Penetration Resistance of Liquids			
Sulphuric Acid (30% w/w)	EN ISO 6530	<1	3 of 3
Sodium Hydroxide (10% w/w)		<1	3 of 3

Additional Testing			
Test Method		Result	EN Class
Anti-static Properties (EN 1149-5)	EN 1149-3 (Charge Decay)	$t_{50} < 4 \text{ s}$	Pass
Hydrostatic Head (Water Pressure Test)	ISO 811	>100 cm H ₂ O	

Comfort Testing			
Test Method		Result	Units
Water Vapour Resistance (R_{et})	EN 31092/ISO 11092	<20	m ² ·Pa/W
Thermal Resistance (R_{ct})	EN 31092/ISO 11092	10.8 x 10 ⁻³	m ² ·K/W

Whole Suit Testing	
Test Method	
EN ISO 13982-1:2004+A1:2010	Type 5 : Particle Test
EN 13034:2005+A1:2009	Type 6 : Reduced Spray Test

Safety Note: All chemical tests and breakthrough times given relate to laboratory tests on fabrics only. Seams and closures may have lower breakthrough times, particularly when worn or damaged. It is the user's responsibility to select an appropriate garment, gloves, boots and other equipment for the particular use. The user shall be responsible for determining how long the garment can be worn for the particular use and whether it can be suitably cleaned for re-use. Ansell Limited does not give any warranties or make any representations about its garments other than those contained in the official literature supplied by Ansell Limited with each garment. Ansell 2023. All rights Reserved.



Product name	AlphaTec® 1500 PLUS
Product material	SMS nonwoven with anti-static treatment
Colours available	White, Navy, Light Blue
Material weight	White 48gsm, Navy 50gsm, Light Blue 60gsm

Physical Properties - EN 14325:2004

Test Method		Result (White fabric)	EN Class (White fabric)	Result (Blue fabric)	EN Class (Blue fabric)	Result (Navy fabric)	EN Class (Navy fabric)
Abrasion	EN 530	>100 Cycles	2 of 6	>100 Cycles	2 of 6	>100 Cycles	2 of 6
Flex cracking	EN ISO 7854	>40,000 Cycles	5 of 6	>100,000 Cycles	6 of 6	>100,000 Cycles	6 of 6
Tear resistance (MD)	EN ISO 9073-4	>60 N	2 of 6	>20 N	2 of 6	>60 N	2 of 6
Tear resistance (CD)		>20 N		>100 N		>20 N	
Tensile strength (MD)	EN ISO 13934-1	>100 N	2 of 6	>100 N	2 of 6	>100 N	1 of 6
Tensile strength (CD)		>60 N		>60 N		>30 N	
Puncture resistance	EN 863	>5 N	1 of 6	>5 N	1 of 6	>5 N	1 of 6
Seam Strength	EN ISO 13935-2	>75 N	3 of 6	>75 N	3 of 6	>75 N	3 of 6

Fabric Repellence & Penetration to Liquid Chemicals - EN 14325:2004

Fabric Repellence of Liquids

Test Chemical	Test Method	Result % (White fabric)	EN Class (White fabric)	Result % (Blue fabric)	EN Class (Blue fabric)	Result % (Navy fabric)	EN Class (Navy fabric)
Sulphuric Acid (30% w/w)	EN ISO 6530	>95	3 of 3	>95	3 of 3	>90	2 of 3
Sodium Hydroxide (10% w/w)		>95	3 of 3	>90	2 of 3	>95	3 of 3

Fabric Penetration Resistance of Liquids

Test Chemical	Test Method	Result	EN Class	Result	EN Class	Result	EN Class
Sulphuric Acid (30% w/w)	EN ISO 6530	<1	3 of 3	<1	3 of 3	<1	3 of 3
Sodium Hydroxide (10% w/w)		<1	3 of 3	<1	3 of 3	<1	3 of 3

Additional Testing

Test Method		Result (White fabric)	EN Class (White fabric)	Result (Blue fabric)	EN Class (Blue fabric)	Result (Navy fabric)	EN Class (Navy fabric)
Anti-static Properties (EN 1149-5)	EN 1149-3 (Charge Decay)	$t_{50} < 4$ s	Pass	$t_{50} < 4$ s	Pass	$t_{50} < 4$ s	Pass

Whole Suit Testing

Test Method	
EN ISO 13982-1:2004+A1:2010	Type 5 : Particle Test
EN 14605:2005+A1:2009	Type 6 : Reduced Spray Test
EN 1073-2:2002	Radioactive Particulates (Class 1 of 6)*

* Overall tested to EN 1073-2 for barrier to radioactive particles, with the exception of Clause 4.2: Puncture resistance achieves Class 1 versus the requirement of Class 2. Resistance to ignition is not tested as product already carries flammability warning. Note: Does not protect against ionizing radiation.

Comfort Testing

Test Method		Result (White fabric)	Units	Result (Blue fabric)	EN Class (Blue fabric)	Result (Navy fabric)	EN Class (Navy fabric)
Air Permeability: Gurley Method	ISO 5636-5	1.27	s 100 cm ²	1.27	s 100 cm ²	1.27	s 100 cm ²
Water Vapour Resistance (R _{ev})	EN 31092/ISO 11092	2.00	m ² ·Pa/W	1.90	m ² ·Pa/W	1.43	m ² ·Pa/W
Thermal Resistance (R _{ct})	EN 31092/ISO 11092	0.019	m ² ·K/W	0.021	m ² ·K/W	0.025	m ² ·K/W
Water Vapour Permeability Index (WVPI)		0.582	-	0.657	-	1.028	-
Clothing Insulation (clo) value		0.125	-	0.134	-	0.158	-

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